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54 Elektronendetektor für ein Rasterelektronenmikroskop

Die vorliegende Erfindung bezieht sich auf einen Elektronendetektor zur Verwendung in einem Rasterelektronenmikroskop. Der Detektor wird verwendet, um rückgestreute Elektronen hoher und niedriger Energie sowie Sekundärelektronen zu erfassen. Der Detektor beruht auf der Verwendung eines weitgehend transparenten leitenden Filmes auf der Oberfläche des Detektors, wobei die Oberfläche stabil ist bezüglich einer angelegten hohen Spannung. Der Detektor wird verwendet, um sowohl rückgestreute Sekundärelektronen hoher und niedriger Energie zu erfassen und hat eine aktive Oberfläche mit einem an ihr vorgesehenen feinmaschigen Metallgitter, das verwendet wird, um Elektronen ohne Energieverlust durchzulassen, während gleichzeitig eine leitende Oberfläche auf der Oberseite des Detektormaterials bereitgestellt wird.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 01/07431

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J37/244

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09, 30 July 1999 (1999-07-30) & JP 11 096956 A (HITACHI LTD; HITACHI SCI SYST LTD), 9 April 1999 (1999-04-09) cited in the application abstract	1, 2, 19
A	WO 98 22971 A (SAILER RAINER ; CORBIN ANTOINE (FR); SUDRAUD PIERRE (FR); BATE DAVI) 28 May 1998 (1998-05-28) cited in the application page 9, paragraph 4 -page 10, paragraph 5; figures -/-	1, 19

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 992 662 A (DANILATOS GERASIMOS D) 12 February 1991 (1991-02-12) column 2, line 30 -column 3, line 10; figure -----	1,19

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